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Products

Software and Tools

Starter Kits and Platforms

Renesas Starter Kits

Renesas Starter Kit for RL78/G1C



Renesas Starter Kit for RL78/G1C

Target Devices

RL78/G1C

Device Part No. populated on the board: R5F10JGCAFB (RL78/G1C)

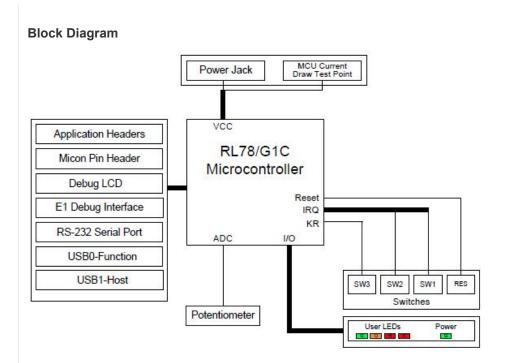
Product Overview

The Renesas Starter Kit for RL78/G1C is intended as a user-friendly introductory and evaluation tool for the RL78/G1C microcontroller. The board also provides a useful platform for evaluating the Renesas suite of development tools for coding and debugging, using CubeSuite+ as well as programming the device using E1 emulator and/or Renesas Flash Programmer.

The Renesas Starter Kit for RL78/G1C may be connected to the host PC using the included USB E1 on chip debugging interface.

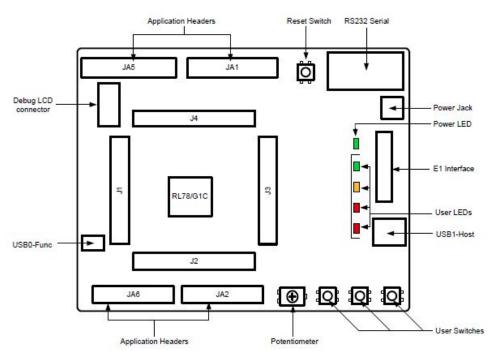
The purpose of the board is to enable the user to evaluate the capabilities of the device and its peripherals by giving the user a simple platform on which code can be run only minutes from opening box. It can also prove an invaluable tool in development by providing a useful test platform for code already debugged using one of our more powerful emulation tools.

* CubeSuite+ is not generally promoted to the U.S. and European customers. Customers in the U.S. and Europe who are interested in CubeSuite+ are requested to contact our regional marketing departments for details.



Layout and Specification

The LCD Display Module is supplied as a detachable sub-board. The board dimensions are 120 mm by 100 mm, detailed dimensions are available in the user manual.



Item	Specification
Microcontroller	R5F10JGCAFB
Input Clock	Main: 12 MHz
	Sub: 32.768 kHz
Potentiometer	Single-turn, 10 kΩ
LED	Power indicator: green x 1
	User: green x 1, orange x 1, red x 2

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Switch	Reset x 1		
	User x 3		
DC Power Jack	5 V Input		
E1 Header	14-pin box header		
USB Connector	USB CH0-Function: USB MiniB		
USB Connector	USB CH1-Host: USB TypeA		
RS232 Serial Connector	9-pin DSUB		
LCD Display Connector	14-pin socket		
Microcontroller Pin Header	2.54 mm pitch, 36-pin x 4 (J1, J2, J3, J4)		
Application Board Interface	2.54 mm pitch, 26-pin x 2 (JA1, JA2), 24-pin x 2 (JA5, JA6)		

^{*} Microcontroller Pin Header and Application Board Interface are not contained in the product.

^{*} The potentiometer is fitted to offer an easy way of supplying a variable analog input to the controller. It does not necessarily reflect the accuracy of the controllers ADC. Please see the device manual for details.

Manufacturer Name: PIHER INTERNATIONAL CORPORATION
Part Number: N6R (6 mm RoHS reflowable potentiometer)



Configuration

[Kit with Renesas CubeSuite+]

- CPU Board
- Detachable LCD Display Module
- Detachable AD Adjustment Shaft
- E1 Emulator
- Connection Cable (USB Cable, User Interface Cable)
- Quick Start Guide
- DVD-ROM

Documents: User Manual, Tutorial, and more
 IDE: CubeSuite+ (Evaluation Software)

RL78, 78K0R Compiler E1 Emulator Debugger

- Flash Memory Renesas Flash Programmer (Evaluation

Programmer: Software)

Notes

The CubeSuite+ Evaluation Software does not come with technical support services. In addition, The CubeSuite+ Evaluation Software has some restrictions compared to the Product Version.

- The scope of available memory is restricted to 64 KB of the internal ROM (0-FFFFh) and to the internal RAM.

The Renesas Flash Programmer Evaluation Software does not come with technical support services.

[Kit with e²studio]

- CPU Board
- Detachable LCD Display Module
- Detachable AD Adjustment Shaft
- E1 Emulator
- Connection Cable (USB Cable, User Interface Cable)
- Quick Start Guide
- DVD-ROM
 - Documents: User Manual, Tutorial, and more
 - IDE:

e²studio
KPIT GNURL78 Toolchain
E1 Emulator Debugger
and more

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PC System Requirements

[Kit with Renesas CubeSuite+]

- IBM PC/AT or compatible PC (USB 2.0 interface necessary) *1
- Processor 1 GHz or higher (must support hyper-threading, multi-core CPUs)
- Memory 2 GB or more recommended. Minimum requirement is 1 GB or more (64-bit Windows requires 2 GB or more) *2
- Display 1024 x 768 or higher resolution, 65,535 or more colors
- Microsoft Windows XP / Windows Vista / Windows 7 *2
 - *1: IBM and PC/AT are registered trademarks of International Business Machines Corporation of the U.S.
 - *2: Windows are registered trademarks of Microsoft Corporation of the U.S.

[Kit with e²studio]

- IBM PC/AT or compatible PC (USB 2.0 interface necessary) *1
- Processor 1.6 GHz or higher
- Memory 1 GB or more recommended.
- Microsoft Windows XP / Windows 7 *2
 - *1: IBM and PC/AT are registered trademarks of International Business Machines Corporation of the U.S.
 - *2: Windows are registered trademarks of Microsoft Corporation of the U.S.

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Technical Support

If you encounter problems concerning the bundled debugger (E1), please contact http://www.renesas.com/contact/.

When contacting us, please have the following information ready: your name, company name, department name, fax number, MCU part number (ex. MCU: R5F10JGCAFB), tool part number, version of debugger and a brief description of the problem.

CubeSuite+ Evaluation Software and Renesas Flash Programmer Evaluation Software do not come with technical support services.

Ordering Information

These products can be purchased through the normal sales channels.

Product Name	Debugger Supplied	Part Number (Ordering Number)	Availability
Renesas Starter Kit for RL78/G1C (Kit with Renesas CubeSuite+)	E1	R0K5010JGS000BE	Available
Renesas Starter Kit for RL78/G1C (Kit with e ² studio)	E1	YR0K5010JGS000BE	Available

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